PATENT COOPERATION TREATY

From th

INTERNATIONAL SEARCHING AUTHORITY

 To: Stephen S. Ford, and all of Marger Johnson & McCollom, P.C.
 210 SW Morrison Street, Suite 400 Portland, Oregon 97204

PCT

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

		Date of mailing (day/month/year)	10 JAN 2008
Applicant's or agent's file reference		FOR FURTHER ACTION	
5087-202		See paragraph 2 below	
International application No. PCT/US 06/09572	International filing date 16 March 2006 (16		Priority date (day month/year) 23 June 2005 (23.06.2005)
International Patent Classification (I IPC(8) - G06F 9/46 (2007.01 USPC - 718/104		ition and IPC	
Applicant Cypress Semiconduc	ctor Corporation		

1.	1. This opinion contains indications relating to the following items:							
	\boxtimes	Box No. I Basis of the opinion						
		Box No. II	II Priority					
		Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability					
Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applica citations and explanations supporting such statement								
	Box No. VI Certain documents cited							
Box No. VII Certain defects in the international application								
	Box No. VIII Certain observations on the international application							
2.	 FURTHER ACTION If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered. If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later. For further options, see Form PCT/ISA/220. For further details, see notes to Form PCT/ISA/220. 							
Maii Com P.O.	Stop PC mission Box 14	CT, Attn: ISA/US er for Patents	of the ISA/US rginia 22313-1450 201	Date of completion of this opinion 18 May 2007 (18.05.2007)	Authorized officer: Lee W. Young PCT Helpdesk: 571-272-4300 PCT OSP: 571-272-7774			

Form PCT/ISA/237 (cover sheet) (April 2005)

WRITTEN OPINION OF THE INTERNATIONAL SEARCHING AUTHORITY

Box N	o. I Basis of this opinion
	ith regard to the language, this opinion has been established on the basis of:
2 7	
	a translation of the international application into, which is the language of a translation furnished for the purposes of international search (Rules 12.3(a) and 23.1(b)).
	ith regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the aimed invention, this opinion has been established on the basis of:
а.	type of material
	a sequence listing
	table(s) related to the sequence listing
b.	format of material
	on paper
	in electronic form
c.	time of filing/furnishing
	contained in the international application as filed
	filed together with the international application in electronic form
	furnished subsequently to this Authority for the purposes of search
3.	In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. A	aditional comments:

Form PCT/ISA/237 (Box No. I) (April 2005)

WRITTEN OPINION OF THE

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International application No.

ı	INTERNATIONAL	PCT/US 06/09572	PCT/US 06/09572				
Box No. V Reasoned statement under Rule 43 <i>bis</i> .1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
I. Statement							
Novelty	y (N)	Claims Claims	None 1-20		YES		
Inventi	ve step (IS)	Claims Claims	None 1-20		YES NO		
Industri	ial applicability (IA)	Claims Claims	1-20 None		YES NO		
Claims 1-20 lack As per claim 1, C operator touches an operator using (183), the capacit	asebolt discloses a wake the device, the system of the device, a voltage so tance of which is increas	eup system fo comprising: a ource (batterie ed when a us	r generating a signal to v conductive strip (145, FIC is 3, FIG, 1), a connectio er touches the device (to	02/0035701 A1 to Casebolt et al. (hereinafte vake a device (mouse 107) from a sleep stat G. 6) that is positioned in an area of the devic n to the conductive strip, the strip forming a o uch sensor 181, para. [0094]); a switch (130	le when an ce touched by capacitor)) having two		
the capacitor is a charge and when changing the pos capacitor is fully or and a circuit for g	Iternately charged and d the capacitor is fully dis ition of the switch, a cha discharged; a counter for enerating the wake sign	ischarged (pa charged (mic) nge being ma r counting the al (wake in P.	ra, [0097]-[0098]); a dete oprocessor P, FIG. 1); a de whenever when the c number of cycles of the FIG. 1) if the number of	cond of which connects the capacitor to grou octor for determining when the capacitor read control circuit responsive to the detector for napacitor reaches the pre-set charge and whi switch in a pre-established period of time (pa cycles is below a pre-established number du low a predetermined threshold count value,	ches a pre-set cyclically en the ara. [0102]); uring the		
As per claim 2, C	asebolt discloses the wa	ikeup system	wherein the device is ba	ttery operated (by battery 3, FIG. 1).			
As per claims 3 a abstract, 107).	nd 13, Casebolt disclose	es the wakeup	system wherein the dev	rice is a battery-operated (battery 3, FIG. 1) r	nouse (see		
As per claims 4 a and the conductiv	nd 14, Casebolt disclose ve strip (145, FIG. 6) is p	es the wakeup ositioned insid	system wherein the dev le the casing.	vice is a mouse (107, FIG. 6) having a casing	I (109, FIG .6)		
As per claims 5 a	nd 15, Casebolt disclose	es the wakeup	system wherein the cas	ing is made of plastic (para. [0057]).			
			wherein the device is a se (see FIG. 6 and detail	computer mouse (abstract, 107, FIG .6) and In FIG. 10).	l the		
As per claims 7 a capacitor 145 in F		es the wakeup	system including a plura	ality of conductive strips forming the capacito	ir (see detail of		
As per claim 8, C three volt battery		ikeup system	wherein the preset charg	e is a charge that generates a voltage of thr	ee volts (by a		
	asebolt discloses the wa te machine (para. (0014)		wherein the control circu	it Includes a clock (FIG. 1, para. [0068]), a co	ounter (para.		
107, FIG. 6) that i	16 and 18, Casebolt dis has a casing (109) make n the inside of the casin	e of plastic, wh	iich in a non-conductive i	e device (107) comprises a computer mouse material (para. [0057]) and wherein the cond	abstract, luctive strip		

As per claim 11, Casebolt discloses a method of generating a wakeup signal for a low power device (mouse 107) comprising the steps of: changing the value of capacitance of a capacitor (183) from a relatively low value to a relatively high value when an operator touches the device (para. [0094]), periodically measuring the value of the capacitor (para. [0097]-[0098]), generating a wakeup signal if for the device if the capacitor has a relatively high value (para. [0074]).

As per claim 12, Casebolt discloses the wakeup method, wherein the device is a battery (3) operated wireless computer mouse (107), which goes into a sleep state when not moved for a particular period of time (para. [0005]).

---see continuation page---

Form PCT/ISA/237 (Box No. V) (April 2005)

PCT/US 06/09572

Supplemental Box

In case the space in any of the preceding boxes is not sufficient. Continuation of:

Box No. V.2. Citations and Explanations:

As per claim 19, Casebolt discloses a wakeup system for generating a signal to wake a device (mouse 107) from a sleep state when an operator touches the device (touch sensor 181), the system comprising: conductive means (145) forming a capacitor (183), the conductive means being positioned so that the capacitance of the conductive means is increased from a relatively low value to a relatively high value when an operator touches the device (para. [0094]), measuring means for determining the value of the capacitor (i.e. the counter), circuit means (P, FIG. 1) responsive to the measuring means for generating the wake signal if the capacitor has a relatively high value (see FIG. 8 for flow chart when Wake signal is generated and FIG. 1 where a Wake signal is shown in the P).

As per claim 20, Casebolt discloses the wakeup system wherein the device is a battery operated (battery 3) wireless mouse (107) having a casing (109) and the conductive means (145) positioned inside the casing means (see FIG. 6) at a position on the casing where an operator naturally touches the mouse when using the mouse.

Claims 1-20 have industrial applicability as defined by PCT Article 33(4) because the subject matter can be made or used in industry.

Form PCT/ISA/237 (Supplemental Box) (April 2005)

NOTES TO FORM PCT/ISA/220 (continued)

The letter must indicate the differences between the claims as filed and the claims as amended. It must, in particular, indicate, in connection with each claim appearing in the international application (it being understood that identical indications concerning several claims may be grouped), whether

- (i) the claim is unchanged;
- (ii) the claim is cancelled;
- (iii) the claim is new;
- (iv) the claim replaces one or more claims as filed;
- (v) the claim is the result of the division of a claim as filed.

The following examples illustrate the manner in which amendments must be explained in the accompanying letter:

- [Where originally there were 48 claims and after amendment of some claims there are 51]: "Claims 1 to 29, 31, 32, 34, 35, 37 to 48 replaced by amended claims bearing the same numbers, claims 30, 33 and 36 unchanged; new claims 49 to 51 added."
- 2. [Where originally there were 15 claims and after amendment of all claims there are 11]: "Claims 1 to 15 replaced by amended claims 1 to 11."
- 3. [Where originally there were 14 claims and the amendments consist in cancelling some claims and in adding

"Claims 1 to 6 and 14 unchanged; claims 7 to 13 cancelled; new claims 15, 16 and 17 added." or "Claims 7 to 13 cancelled; new claims 15, 16 and 17 added; all other claims unchanged."

- 4. [Where various kinds of amendments are made]:
- "Claims 1-10 unchanged; claims 11 to 13, 18 and 19 cancelled; claims 14, 15 and 16 replaced by amended claim 14; claim 17 subdivided into amended claims 15, 16 and 17; new claims 20 and 21 added.

"Statement under Article 19(1)" (Rule 46.4)

The amendments may be accompanied by a statement explaining the amendments and indicating any impact that such amendments might have on the description and the drawings (which cannot be amended under Article 19(1)).

The statement will be published with the international application and the amended claims.

It must be in the language in which the international application is to bepublished.

It must be brief, not exceeding 500 words if in English or if translated into English.

It should not be confused with and does not replace the letter indicating the differences between the claims as filed and as amended. It must be filed on a separate sheet and must be identified as such by a heading, preferably by using the words "Statement under Article 19(1)."

It may not contain any disparaging comments on the international search report or the relevance of citations contained in that report. Reference to citations, relevant to a given claim, contained in the international search report may be made only in connection with an amendment of that claim.

Consequence if a demand for international preliminary examination has already been filed

If, at the time of filing any amendments and any accompanying statement, under Article 19, a demand for international preliminary examination has already been submitted, the applicant must preferably, at the time of filing the amendments (and any statement) with the International Bureau, also file with the International Preliminary Examining Authority a copy of such amendments (and of any statement) and, where required, a translation of such amendments for the procedure before that Authority (see Rules 55.3(a) and 62.2, first sentence). For further information, see the Notes to the demand form (PCT/IPEA/401).

If a demand for international preliminary examination is made, the written opinion of the International Searching Authority will, except in certain cases where the International Preliminary Examining Authority did not act as International Searching Authority and where it has notified the International Bureau under Rule 66.1 bis(b), be considered to be a written opinion of the International Preliminary Examining Authority. If a demand is made, the applicant may submit to the International Preliminary Examining Authority a reply to the written opinion together, where appropriate, with amendments before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later (Rule 43bis.1(c)).

Consequence with regard to translation of the international application wir entry into the national phase

The applicant's attention is drawn to the fact that, upon entry into the national phase, a translation of the claims as amended under Article 19 may have to be furnished to the designated/elected Offices, instead of, or in addition to, the translation of the claims as filed.

For further details on the requirements of each designated/elected Office, see the PCT Applicant's Guide, Volume II.